Edison Portland Cement Company Records
Plant Operations Pocket Notebook, PN-01-00-00.1

This undated pocket notebook was used by Edison and an unidentified author for notes, calculations, and drawings relating primarily to prospectors' surveys in the vicinity of Stewartsville and the analysis of collected samples. Included are notes from surveys conducted by Edison and Francis R. Upton. Most of the drawings are topographical sketches. Near the end of the book are notes and drawings pertaining to blowers and oil feeds. The front cover is marked "Pass Book." The pages are unnumbered. Approximately 40 pages have been used.

9 Wellne Cement 27 acres
farm plat ore creek 16
43 —

Record of the Eng Assay line of holes across the property of Samantha Cobart at the old lime kiln

Hole	100	Dolomite	Dip mountain
	101	"	"
	102	"	"
	103	"	"
	104	"	"
	105	"	perpendicular
	106	"	"
	107	"	

Between 107 and 108 intersects the large outcrop.

Two samples were taken of this outcrop of rock - one was on the west side was thus marked. The other was on the East side and merely on top. It was also marked but

size sample Carbate
outcrop Lime Kiln.

Hole No 108 not being
deep enough to get the
blue rock as it was first
understood was wanted
the men went deeper
and got fair sample
of blue rock.
I did not measure
this hole as to depth
as the stripping sam-
ples was taken how-
ever, one only I
believe and marked
Hole No 108

Hole No 108 continued
The dip of the rock is
about

E ← ////// → W Dipping East

Si	al	Fe	Ca	Mg
7.44	1.77	1.38	85.28	2.58

as this hole is within 6 or 8 feet of the outcrop being West of it, it should show limestone, but it is in very thin limestone and resembles cement rock rather than limestone

12 feet in top

Si	al	Fe	Ca	Mg
12.73	5.58	2.67	74.21	3.80

Hole No. 109 was located the same as hole No. 108 and sample taken. The laminations appeared to be about the same. The dip was a little lower angle than hole No 108

I did not myself take
sample 109 or measure
the depth of hole on the
stoping

Hole No 110
Sample taken from the
hole it was not down to
where the rock was so
blue as No. 108 and 109
did not sample it my-
self. The dip was toward
the East and at a higher
angle

E //// W

Should say it dipped
45°

Hole No 111

Sampled by myself about 9 feet deep. Dip 45° to the East

Took samples along the dip

Stopping 3 feet before the entire rock vein vein is reached

No. 1 sample is taken about 1 foot below the stopping line

Sample No 2 middle way between stopping and bottom sample

3 sample nearly at bottom

4 sample was taken from the bottom

Remarks

None of the samples taken from holes 111 to 124 are fair samples of the rock because they are very much weathered and leached out and have clay in the cleavage seams of the many thin laminations composing the rock some are very much decomposed the limestone leached out while other laminations are hard, but even these have nearly lost their blue color.

There are also many places where a certain lamination is entirely leached out having only pure clay.

One or two places in the holes show veins 1 to 2 feet wide the whole depth of the hole. One particular hole shows the whole of the strata on one side leached out leaving only the clay.

Hole 112
Depth 21 feet 9 inches
Depth of stopping 4 ft.
This hole had a clay
~~seam~~ seam one foot
wide.
3 samples were taken
from this hole top
middle and bottom
marked 1-2-3
Dip is East about 45°

3rd Sample

Si	Al	Fe	Ca	Mag
22.52	8.96	2.08	62.32	.78

Hole No 113

This hole is 12 feet deep

all sample taken on West side of hole

No 1 sample taken one foot from stopping, No. 4 sample from bottom. No 2 & 3 at intermediate points.

There is also a clay seam in this hole 1½ feet wide reaching from top to bottom dipping same angle as above which is 45 deg

No.	Al	Fe	Cu	Mag
31				
1617	7.33	1.74	71.52	.24

Hole 114

This hole 12 ft 6 inches deep. Stripping 3 feet angle of dip 75 deg. pitching towards east.

Rock shaly and chloritic. No 1 sample 1 foot from stripping No 4 sample at the bottom 2 & 3 taken at intermediate points

Nos.						
51						
1727	8.97	2.	69.28		.28	

Hole 115
8 feet deep only one sample taken at bottom. Rock ill defined, much decomposed. Can't say as to dip.

Hole 116
Depth 15 ft. 6 inches
Stripping 5 ft.
Four samples taken.
No. 1 within foot of stripping line. No. 4 at bottom. Nos. 2 & 3 at indeterminate points.

Hole No. 117
18 feet deep. Stopping
4 feet. Rock fairly
good. not blue. 3 samples taken as recorded
but think 4 were taken.
They were taken in the
same manner as all
the other holes.
The dip is clearly
perpendicular.

Hole 118
12 feet deep Stopping
5 feet
Rock quite chalky
and rotten
3 samples were taken
No. 1 Top
No 2 Intermediate
No 3 Bottom

Dip perpendicular

Hole 119
Depth 9 feet
stopping 7 feet
Only one sample taken

only Sample

Si	al	Fe	Ca	Mg
13.14	.550	.230	.9566	.121

Hole 120
Depth 18 feet
Staffing 4 feet
Grid sample were taken
No. 1 at top No. 5 at
bottom other intermediate
Cut chip

Hole 121
Depth 11 feet
Stripping 4 feet

3 samples No. 1 top.
No. 3 bottom No. 2 inter-
mediate
at the dip.

Hole No. 122

Depth 26 feet 6 inches
Dipping 6 feet
4 samples marked
but I think there were
5 taken as ~~the~~ in the
other holes. The rock
is fair in this hole
No. blue as it is some
what decomposed. Is not
as thinly laminated as
in positions. The trend
seems to coincide exactly
with a line between the
valley mountains

Drill H5
68 to 75 ft Chips
1923 965 6289

Hole No. 123
Depth 11 feet
Stripping 9 feet

Rock rather rotten & shaky. 3 samples were taken in usual manner

224 Dol

225	1455	557	76.50
226 Bot	462	251	91.22
232	310	195	92.22

233 Dol

249 Quartz

Drill hole 5

Core 57 to 63 ft.

17.07	950	65.55	55%

Core 63 to 68.

9.30	561	80.99	

68 to 76 ft

12.74	746	72.44	53%

Chips Drill 4 5

50 to 57 ft Chips

1854	1163	61.39

57 to 63 Chips

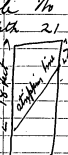
1665	1286	61.17

63 to 68 ft Chips

1097	733	77.28

Hole No 124

Depth 21 feet



This is evidently the side of a decomposed pocket at hole 3 samples are marked as taken on my book but think they were from. They were taken in the usual way. get dip.

237	4.72	381		91.41
238				
241				
242 } Dol				
245				
246				
243	10.53	4.10		79.70
" Bottom	6.40	2.31		86.24
Drill Hole 3 114 ft				
"	1869	1034		67.87
" 94 ft to 106 ft				
	1880	9.86		67.37
" 106 to 114½			232	
	1697	8.24		68.38
" 114½ to 119.2			181	
	1987	11.75		63.51
119 to 121 –				
	1681	9.76		69.30
121 to 126			233	
	1796	9.64		67.77

Hole 125
Depth 7 feet
Stripping 4 ft 6"

Only one sample from bottom and this rotten rock.
Hole is not deep enough

Hole 231 Bottom				
	9.49	7.54		82.72
230 bottom				
	6.36	620	86	67
234 Bottom Dolomite				
235	5.38	526	87	92
236	6.59	483	87	16
238 Dol				
248 Dol				
216	1724	903		68.10
220 Bot	3.83	244		89.04

a

Isolated outcrop sample taken by Upton & myself.

Sample OCS.No1

is the first outcrop from the private cemetery on road towards Stewartsville proceed off it 300 ft to Corner of graveyard

OCS means Outcrop Stewartsville –

OCS No2

is first outcrop ~~[illegible]~~ on RR cut going SW and ~~[illegible]~~ ~~[illegible]~~ @ 100 feet beyond the point behind RR Curve.

1/2 of the samples from Right hand side the other 1/2 from left hand side 200 feet beyond going towards Edwards Cut angle of dip appears to be 60 deg dipping to SE

Showing beyond outcrop towards Cemetery 30 feet to RR track how much further cut is

OCS No 3

This sample is the 2nd outcrop along RR going to Euston & beyond the 2nd road under RR, about said it was 12x12 feet & extends its within 50 ft of a white post on right side of RR going towards E entrance. (right in center of cut) dip is 50 deg. toward SE

It is the outcrop which shows an apparent junction between Magnesian Limestone & Carbonate, Sample 3 is lower part next track & appears to be Magnesian

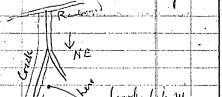
OCS No 4 is the upper part of outcrop & appears to be Carbonate or Cement rock, This sample is a Composite of OCS 3 —

Sample is separated (vertically) from the road under (rock surface) (about ... ft) under it —

Sample 2 is 5 feet NE from this road under track

OCS No 5 is an outcrop
~~[illegible]~~
on the bank across the Creek
You go on the Cohart road
under RR then about 5 or 600
feet on the road you look
across the Creek 12 to 15 rods
feet at right angles to the
road to the left. There
is the outcrop
look at front 2 outcrops
24 ft apart —

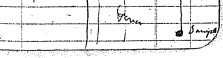
OCS No 6 is outcrop



OCS No 7

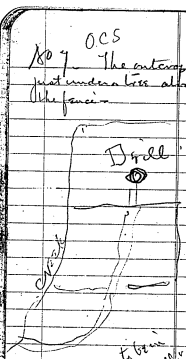
on the road thru the field
from Creek going to D Dodd when
they thaw water

D Dodd



OCS

No 7 The outcrop is just under a tree alongside the fence



OCS

No 8. Outcrop on Hughes's property about 80 ft S of hole we got permission to put down. This hole is on strike of Gill & in line with the holes across Cahart but the Outcrop is 300 ft about South W of the Hughes 1st hole

There is 2 outcrops but there is least one more RR Cahart SW.

O.C.S.

No 9 is outcrop beside a Lime Kiln 5 or 600 feet from Hotel at Slate Creek going S.W. its on the right hand side of road — Sample 8 @ 1000 feet from road — Dip 48° to 50 deg Measure the pole Mag — Dips to SE

On the road Equally across from outcrop Chrome Crops out

O.C.S

Probably Mag Diagram

Shows show road on left right side vertical if left

103. Cabarat 17/1000

This is the second line across Samantha Cabarto property behind the grove and across the Railroad

Hole 126 starts at the fence near the Railroad 9 ft 6" deep 2 samples No1 near top No2 at Collem, stopping 4 ft 6"

Hole 127 advancing
towards the grave yard
16 ft 2" deep
stripping 14 ft 6"
One sample taken at the
bottom

Hole 128 advancing
towards grave yard
12 ft deep stripping
4 ft - 3 samples
No 1 near top No 3 at
bottom No 2 intermediate

Hole 129
9 ft deep stripping
3 ft 2 samples taken
one near top No 2 at
bottom.

Hole 130
14 ft deep 5 ft stripping
3 samples taken No 1
near top No 3, at bottom
No 2 intermediate.

Hole 131
13 ft 4" deep 5 ft stripping
3 samples taken No 1
near top No 3 at bottom
No 2 intermediate.

Hole 132
14 ft deep stripping 11 ft.
One sample taken at
bottom

Hole 135 5.5
9 ft deep 5 ft stripping
2 samples taken No 1
Top No 2 bottom
to (two hole numbers)
right

134.
9 ft deep stripping
7 ft one sample

136 10 ft deep
6 ft stripping
2 samples taken -

137 11 ft deep
10 ft stripping one
sample taken
probably rotten

138 7 ft deep
5 ft stripping one
sample probably no
good as material
deep enough

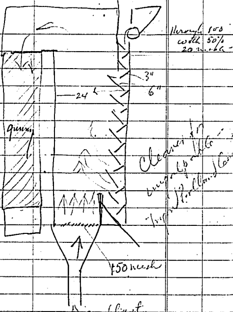
Hole 214-0
Limestone contact in across
RR from Grassyard in gully

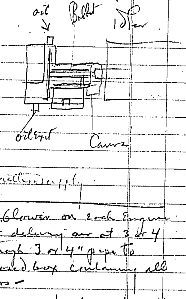
Holes at Hundalhorn

234 235 236 237 262
263

175
30
5250
9) 5641
5376 564
20

564
260
20
3384
1128
0 2440
60) 1460
1200
2600
2400
200





Roof blower on each Engine shaft delivery air at 3 or 4 lbs through 3 or 4" pipe to enclosed box containing all motors —

packing in dustguards rolls must have screw plate so no oil passes through waste as want heavy fed oil oil

36 Roll 25 Hp 1 to 10 $12\frac{1}{2}$ 1 to 20

Drummond Drill Hole 1.
No 2 Hole

		Si	Alt Fe	CaO	
Box 1	Sec 1	23.04	10.55	60.14	
Fo	2	19.32	8.99	65.82	
18	3	18.51	9.08	65.71	
18ft	4	23.65	10.69	57.46	
Box 2	Sec 1	20.29	8.96	65.69	
"	2	19.98	9.22	65.68	
27ft	3	21.10	9.61	63.31	
to 51ft	4	18.15	7.86	67.86	
Box 3	Sec 1	21.39	10.97	62.12	
"	2	21.18	10.49	61.93	
"	3	22.27	10.97	60.58	
"	4	21.45	10.76	64.20	
Box 4	Sec 1	19.58	10.96	65.61	
"	2	21.32	10.38	62.65	
	3	21.12	10.61	63.03	
	4	22.81	10.60	61.03	Inc
Box 5	Sec 1	18.78	8.66	66.07	3.74
	2	24.99	8.92	62.80	
	3	26.56	10.25	59.20	
	4	23.14	10.00	61.06	

Box 6	Sec 1	33.90	11.94	48.21	
	2	35.95	11.28	45.91	
	3	31.39	10.48	51.50	
	4	24.32	10.68	60.96	
Box 7	Sec 1	20.96	11.06	64.94	
	2	17.97	8.27	67.63	
	3	24.91	8.40	61.46	
	4	35.07	11.60	45.74	
Box 8	Sec 1	35.67	11.00	50.53	
	2	27.85	9.27	60.47	
	3	24.97	9.45	59.82	
	4	21.90	9.28	65.61	
Box 9	Sec 1	22.61	7.09	62.32	
"	2	23.08	12.90	59.85	
"	3	19.90	10.12	66.06	
"	4				

Dolomite from W side of hole 204

Si	al	Fe	Ca	Mg
3.190	1.03	.65	60.69	32.86

204 1 to 5 ft from Dolomite

Si	al	Fe	Ca	
2.190	2.32	3.87	80.12	1.57

204 6 to 7 ft from Dolomite

Si	al	Fe	Ca	Mg
2.05	.93	1.15	94.39	1.48

112 1 to 5 ft from bottom

Si	al	Fe	Ca	Mg
7.86	4.14	1.39	83.45	1.05

112 6 to 10 ft from bottom

Si	al	Fe	Ca	Mg
7.71	4.71	1.39	82.30	2.32

Volumetric

Ca	Si	alt Fe	Mg
68.77	17.46	8.90	2.95

Fe
3.31
3.48
2.30
2.38
2.13
2.13
2.30
2.13

Drill hole NO1 -

23 to 44 - 4 assay samples from bags -

		Si	al	Fe	Ca	Mg
1		28.10	1062	3.15	52.16	2.76
2	N	20.62	683	2.21	65.64	2.72
3	N	19.50	683	1.99	66.32	3.04
4	N	18.98	6.89	1.91	68.05	2.94

			alt Fe		
1		29.10	12.75	52.90	
2		29.10	12.88	52.65	
2		21.30	7.85	66.39	
2	N	20.95	7.95	64.95	
3	N	20.50	7.83	66.69	
3	N	20.70	7.60	67.06	
4	N	19.85	8.13	67.12	
4		19.21	10.65	66.21	

	Ba	Al	Fe	Si	Mg
44 to 48	63.68	6.00	2.72	19.96	3.06
48 to 50	64.94	5.81	2.38	20.97	3.44
50 to 55	68.05	6.08	2.00	18.57	2.59
55 to 62	68.41	6.02	2.08	18.47	3.18
62 to 66	62.[illegible]	7.56	3.10	21.78	3.36
66 to 70	67.49	6.53	2.30	18.22	3.29
70 to 77	67.57	6.19	2.00	18.56	3.31
77 to 84	68.21	6.00	2.34	17.36	3.50
84 to 93	69.92	7.35	1.53	16.78	1.26
93 to 99	67.62	6.38	2.17	18.61	3.59
99 to 102					
102 to 116					
116 to 121	73.76	5.75	1.26	14.74	3.32
121 to 127	71.03	5.95	1.30	16.82	3.38
137 to 148	67.10	8.10		18.[illegible]	4.49
148 to 161	70.02	7.77		17.[illegible]	3.99
161 to 167	68.80	7.60		17.[illegible]	4.75
167 to 171	68.98	6.98		17.44	5.04
127 to 130	78.47	4.76	1.19	12.38	3.24
130 to 137	73.39	5.71	1.30	14.70	3.29

Check

	Si	Al	Fe	Ca	Mg
9.57	19.67	7.49	2.21	64.18	
9.29	21.13	6.61	2.21	65.20	
8.98	18.28	5.85	2.30	68.81	
8.10	17.94	6.41	2.21	69.17	
	21.70	7.99	2.47	67.86	
	18.22	7.62	2.38	67.62	
8.49	18.07	7.18	2.13	68.12	
18.33	17.61	7.30	1.79	68.73	3.34
	16.63	7.30	1.28	70	2.47
	18.10	6.49	2.38	67.56	3.52
	15.82	6.26	1.99	70.73	2.64
	16.80	6.03	1.92	69.76	3.61

Limestone Cahart Contact
E. Side

		Ca	Si	al	Fe	Mg
96	1 to 1	91.27	2.28	1.49	.80	.27 96
99.4	6 to 11	94.33	1.70	.70	.73	1.93 99.4
96.53	11 to 15	91 –	1.81	1.77	.57	1.80
99.97	16 to 21	94.24	1.17	.26	.57	3.73
98.46	21 to 25	88.94	1.69	.69	.84	6.30
96.77	26 to 30	87.99	2.12	3.17	.84	2.65
98.40	31 to 35	91.02	1.54	1.05	.84	3.65
100.04	36 to 40	94.52	1.08	.53	.83	2.86
	41 to 45	96.41	1.55	.28	.92	
100	46 to 50	92.19	3.27	1.15	1.53	1.86
	51 to 55	89.85	4.92	1.91	1.38	
99.96	56 to 60	82.91	9.65	2.95	1.84	2.61
99.99	61 to 65	88.96	5.75	2.35	1.30	1.63
100.04	66 to 70	79.82	11.70	4.24	1.61	2.72
96.39	71 to 74	76.85	10.00	3.63	1.92	3.99
100.34	74 to 78 out	78 to 82	91.16	3.90	2.30	1.15	1.87
	Decdup					
			Average	338	1.78	
			89.5			

69% Lime available

Hole 112 - Only first
block pieces large enough
Sulphur stiff decomposed
Hence all
1 to 5 ft
204 = Curious stiff crystals
looks like Gypsum but is
probably Carbonate or which
Limestone -
112 16 to 20 ft all decomposed
Mg - S well assay at bottom
112 6 to 10 ft decomposed
but not so bad as above
112 11 to 15 from bottom decomposed
204 - Looks like Mag Ca
undecomposed - from Dolomite
204 11 to 14 ft to a little
it decomposed -
204 6 to 7 from Dolomite
2 pieces fairly ok one
large piece decomp left out -

204 11 to 14 ft from Dolomite

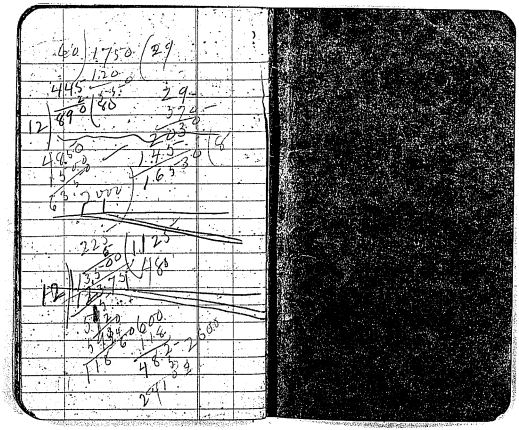
Si	al	Fe	Ca
535	346	.94	87.90

112 11 to 15 ft from bottom

Si	al	Fe	Ca
1337	567	1.68	74.87

112 16 to 20 ft from bottom

Si	al	Fe	Ca
2212	926	1.29	59.24

112 29 ft 2" bottom

Si	al	Fe	Ca
806	391	1.34	83.52